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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/035,319	10/26/2001	Michael R.S. Hill	P-10124.00	3335	
27581	7590 09/0	2005	EXAM	EXAMINER	
MEDTRO	•		OROPEZA,	FRANCES P	
MS-LC340	RONIC PARKWAY	NE	ART UNIT	PAPER NUMBER	
MINNEAPOLIS, MN 55432-5604			3762		
			DATE MAILED: 09/06/200	DATE MAILED: 09/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Talk			
	Application No.	Applicant(s)			
	10/035,319	HILL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Frances P. Oropeza	3762			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	tne correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a rep od will apply and will expire SIX (6) MONTH tute, cause the application to become ABAN	ATION. by be timely filed AS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 6/2	<u> 29/05 (Amendment)</u> .				
2a)⊠ This action is FINAL . 2b)☐ T	This action is FINAL. 2b) This action is non-final.				
3) Since this application is in condition for allow					
closed in accordance with the practice unde	Ex parte Quayle, 1955 C.D.	11, 455 O.G. 215.			
Disposition of Claims		•			
4)⊠ Claim(s) <u>20-36</u> is/are pending in the applica					
4a) Of the above claim(s) is/are withd	rawn from consideration.				
5) Claim(s) is/are allowed.		•			
6) Claim(s) 20-36 is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	1/or election requirement				
Application Papers					
9) The specification is objected to by the Exami					
10)⊠ The drawing(s) filed on <u>28 April 2005</u> is/are:		•			
Applicant may not request that any objection to the	*	· ·			
Replacement drawing sheet(s) including the corr	,	• • • • • • • • • • • • • • • • • • • •			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for forei	an priority under 35 U.S.C. § 1	19(a)-(d) or (f)			
a) All b) Some * c) None of:	gii pilotiky undoi oo o.o.o. 3 1	10(4) (4) 51 (1).			
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume	ents have been received in App	olication No			
3. Copies of the certified copies of the pr	riority documents have been re	ceived in this National Stage			
application from the International Bure	eau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a li	ist of the certified copies not re	ceived.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Sur				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 		Mail Date rmal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:				

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DETAILED ACTION

Election/ Restriction

1. In the response of 6/29/05, the Applicant amended the claims hence the rejection of record is withdrawn and a new rejection established in the subsequent paragraphs.

Claim Rejections - 35 USC § 102

2. Claims 20, 22-24, 26-28 and 31-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Holmstrom et al. (EP 0 688 577 A1). Holmstrom et al. disclose a device for impending supraventricular heart therapy comprising an implantable cardiac and neural electrode system to sense and stimulate (23), a detection block (5) of cardiac (51) and neural (53) sensing circuits to sense the physiological parameter(s), a neural stimulation circuit (9), a control circuit (13), and a pacing circuit (7) (figure 1). The therapy is provided for impending ventricular tachyarrhythmias, hence the system anticipates the occurrence of a cardiac insult. The neural generator includes a time control unit (92) that is programmed, hence the device is capable or teaches neural stimulation prior to onset of the insult, for a period to time after the onset of the insult, or for a time period after termination of the insult. The stimulator can be used externally with external and internal electrodes, read as positioned proximate an external body surface and positioned subcutaneously, respectively (abstract; figure 1; col. 3 @ 6-27 and 37-50; col. 4 @ 1-50; col. 5 @ 10-39; col. 7 @ 43-52; col. 8 @ 10-56; col. 9 @ 10-13 and 40-44).

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As to claims 20, 31 and 32 and the use of the device with the excitable neural tissue of a portion of the spine, Holmstrom et al. discloses the use of the device with excitable neural tissue of a portion of the spine, specifically the ganglion stellatum (col. 3 @ 6-27; col. 7 @ 50). Note that the concept of using of the device with the excitable neural tissue of a portion of the spine amounts to an intended use limitation of which the device performs or is capable of performing.

As to claims 20, 31 and 32 and closed loop control of the stimulation system,

Holmstrom et al. discloses closed loop control of the stimulation system (col. 4 @ 29-50;

col. 5 @ 10-39; col. 6 @ 54 - col. 7 @ 7; col. 7 @ 53 - col. 8 @ 56).

3. Claims 20, 22-24, 26 and 29-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Hartlaub (US 6134470). Hartlaub discloses a method and device with physiological sensors (342), sensor controls (340), neural stimulator (272) and controllers (270, 244) to detect the precursors to tachyarrhythmias and respond with stimulation of the spinal cord/ spinal roots, pacing therapy and/or a drug delivery system. The therapy is provided for the precursors to tachyarrhythmias, hence the system anticipates the occurrence of a cardiac insult. The spinal cord generator is activated for predetermined time periods, hence the device is capable or teaches neural stimulation prior to onset of the insult, for a period to time after the onset of the insult, or for a time period after termination of the insult. The results of past stimulation are used to perform future stimulation (abstract; figures 1, 2; col. 1 @ 42-52; col. 2 @ 3-15 and 40-53; col. 4 @ 35-47; col. 4 @ 56 - col. 5 @ 7; col. 6 @ 25-54col. 7 @ 47-61; col. 8 @ 66 - col. 9 @ 20; col. 9 @ 53-67; col. 11 @ 24-65; col. 12 @ 19-25;

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col. 13 @ 4-34).

As to claims 20, 31 and 32 and the use of the device with the excitable neural tissue of a portion of the spine, Hartlaub discloses the use of the device with the excitable neural tissue of a portion of the spine, the spinal cord (col. 1 @ 5-9; col. 4 @ 35-47). Note that the concept of using of the device with the excitable neural tissue of a portion of the spine amounts to an intended use limitation of which the device performs or is capable of performing.

As to claims 20, 31 and 32 and closed loop control of the stimulation system,

Hartlaub discloses closed loop control of the stimulation system (abstract; col. 1 @ 4552; col. 6 @ 44-54; col. 9 @ 15-19)

4. Claims 20-22, 26, 31, 32 and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by Obel et al. (US 5199428). Obel et al. disclose a nerve stimulator (108) and pacing therapy (104) to respond to a physiological parameter (pH and SO2) which provides "a meaningful predictor of ischemia" and potential arrhythmias to the controller (100). The therapy is provided for "a meaningful predictor of ischemia" and potential arrhythmias, hence the system anticipates the occurrence of a cardiac insult. A patient activation mechanism is taught (abstract; figure 2; col. 5 @ 25-51; col. 6 @ 39-53; col. 7 @ 5-25; col. 10 @ 3-5).

As to claims 20, 31 and 32 and the use of the device with the excitable neural tissue of a portion of the spine, Obel et al. discloses the use of the device with the excitable neural tissue of a portion of the spine, the "other effective nerves" read as the ganglion stellatum associated with the Autonomic Nervous System (col. 1 @ 9-13;

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col. 3 @ 8-19). Note that the concept of using of the device with the excitable neural tissue of a portion of the spine amounts to an intended use limitation of which the device performs or is capable of performing.

As to claims 20, 31 and 32 and a closed loop control of the stimulation system,

Obel et al. discloses a closed loop control of the stimulation system (abstract;

col. 5 @ 25-51; col. 6 @ 39-53; col. 7 @ 5-25).

Claims 20, 22-26, 31, 32 and 36 are rejected under 35 U.S.C. 102(e) as being anticipated by Sweeney et al. (US 6272377). Sweeney et al. disclose a cardiac management system that predicts arrhythmias, based on physiological parameter(s), and treats the anticipated occurrence of a cardiac insult with neural stimulation. A warning is provided to the patient that an arrhythmia has been predicted (abstract; col. 1 @ 7-11; col. 2 @ 11-16, 39-45 and 58-66; col. 4 @ 61 – col. 5 @ 20; col. 8 @ 23-55; col. 9 @ 3-32 and 45-62).

As to claims 20, 31 and 32 and the use of the device with the excitable neural tissue of a portion of the spine, Sweeney et al. discloses the use of the device with the excitable neural tissue of a portion of the spine, specifically the stellate ganglion (col. 8 @ 49-53). Note that the concept of using of the device with the excitable neural tissue of a portion of the spine amounts to an intended use limitation of which the device performs or is capable of performing.

As to claims 20, 31 and 32 and closed loop control of the stimulation system, Sweeney et al. discloses closed loop control of the stimulation system (abstract; col. 4 @ 61 – col. 5 @ 20).

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Statutory Basis

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fran Oropeza whose telephone number is (571) 272-4953. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert E. Pezzuto can be reached on (571) 272-6996. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communication and for After Final communications.

Frances P. Oropeza Patent Examiner Art Unit 3762 Robert E. Pezzuto

Supervisory Patent Examiner

Art Unit 3762